

On page 5, lines 19-20, change "weight. The" to --weight, the--.

On page 6, line 23, before "complementary", insert -- (SEQ. ID. No. 1) --.

On page 6, line 24, before "of", insert -- (SEQ. ID. No. 2) --.

On page 6, line 27, change "clones" to --clone--.

On page 6, line 32, before "(also", insert -- (SEQ. ID. No. 3) --.

On page 7, line 9, before "(also", insert -- (SEQ. ID. No. 4) --.

On page 9, line 7, after the word "sequence" but before the ":", please insert -- (SEQ. ID. No. 5)--.

Please delete lines 8-35 on page 9 and lines 1-17 on page 10, and insert the following:

-- CAAGTTGAAA GCAACAACAG AACTGTAAAT TCTCTGCAG TGAAATCTCT GCTCATGTCA 60
 GCAGAAAACA ACATCATGCC TAACTCTCAA GCTTCCACTG ATTCTCATTT CAAGCTGAGC 120
 CTCTGGCTAA GGGTTCCAAA GGTTTTGAAG CAGGTTTCCA TTCAGAAATT GTTCAAGGTT 180
 GCAGGAGATG AAACAAACAA AACATTTTAT TTATCTATTG CCTGCATTCC AAACCATAAC 240
 AGTGTTGAGA CAGCTTTTAA CATTACTGTT ATTTGCAAGC ATCAGCTCCC AATTGCGAAA 300
 TGCAAAGCTC CTTTTGAATT ATCAATGATG TTTTCTGATT TAAAGGAGCC TTACAACATT 360
 GTTCATGACC CTTCATACCC CAAAGGATCG GTTCCAATGC TCTGGCTCGA AACTCACACA 420
 TCTTTGCACA AGTTCTTTGC AACTAACTTG CAAGAAGATG TAATCATCTA CACTTTGAAC 480
 AACCTTGAGC TAACTCCTGG AAAGTTAGAT TTAGGTGAAA GAACCTTGAA TTACAGTGAA 540
 GATGCCTACA AAAGGAAATA TTTCTTTTCA AAAACACTTG AATGTCTTCC ATCTAACACA 600
 CAAACTATGT CTTACTTAGA CAGCATCCAA ATCCCTTCAT GGAAGATAGA CTTTGCCAGA 660
 GGAGAAATTA AAATTTCTCC ACAATCTATT TCAGTTGCAA AATCTTTGTT AAAGCTTGAT 720
 TTAAGCGGGA TCAAAAAGAA AGAATCTAAG GTTAAGGAAG CGTATGCTTC AGGATCAAAA 780
 TAATCTTGCT TTGTCCAGCT TTTTCTAATT ATGTTATGTT TATTTTCTTT CTTTACTTAT 840
 AATTATTTCT CTGTTTGTCA TCTCTTTCAA ATTCCTCCTG TCTAGTAGAA ACCATAAAAA 900
 CAAAAAATAA AAATGAAAAT AAAATTAAAA TAAAAAATAA TCAAAAAATG AAATAAAAAAC 960
 AACAAAAAAT TAAAAAACGA AAAACCAAAA AGACCCGAAA GGGACCAATT TGGCCAAATT 1020
 TGGGTTTTGT TTTTGTTTTT TGTTTTTTGT TTTTATTTT TTATTTTATT TTTATTTTAT 1080
 TTTATTTTTA TTTTATTTTT ATTTATTTTA TTTTGTGTTT TCGTTGTTTT TGTTATTTTA 1140
 TTATTTATTA AGCACAACAC ACAGAAAGCA AACTTTAATT AAACACACTT ATTTAAAATT 1200
 TAACACACTA AGCAAGCACA AGCAATAAAG ATAAAGAAAG CTTTATATAT TTATAGGCTT 1260

TTTTATAATT TAACTTACAG CTGCTTTCAA GCAAGTTCTG CGAGTTTTCG CTGCTTTTAA 1320
 ACCCCGAACA TTTCATAGAA CTTGTAAAGA GTTTCACGTG AATGTTCCAT AGCAACACTC 1380
 CCTTTAGCAT TAGGATTGCT GGAGCTAAGT ATAGCAGCAT ACTCTTTCCC CTTCTTCACC 1440
 TGATCTTCAT TCATTTCAAA TGCTTTGCTT TTCAGCACAG TGCAAACCTT TCCTAAGGCT 1500
 TCCTTGGTGT CATACTTCTT TGGGTCGATC CCGAGGTCCT TGTATTTTGC ATCCTGATAT 1560
 ATAGCCAAGA CAACACTGAT CATCTCAAAG CTATCAACTG AAGCAATAAG AGGTAAGCTA 1620
 CCTCCCAGCA TTATGGCAAG TCTCACAGAC TTTGCATCAT CGAGAGGTAA TCCATAGGCT 1680
 TGAATCAAAG GATGGGAAGC AATCTTAGAT TTGATAGTAT TGAGATTCTC AGAATTCCCA 1740
 GTTCTTCTAA CAAGCCTGAC CCTGATCAAG CTATCAAGCC TTCTGAAGGT CATGTCAGTG 1800
 CCTCCAATCC TGTCTGAAGT TTTCTTTATG GTAATTTTAC CAAAAGTAAA ATCGCTTTGC 1860
 TTAATAACCT TCATTATGCT CTGACGATTC TTTAGGAATG TCAGACATGA AATAACGCTC 1920
 ATCTTCTTGA TCTGGTCGAT GTTTTCCAGA CAAAAGTCT TGAAGTTGAA TGCTACCAGA 1980
 TTCTGATCTT CCTCAAACCTC AAGGTCTTTG CTTGTGTCA ACAAAGCAAC AATGCTTTCC 2040
 TTAGTGAGCT TAACCTTAGA CATGATGATC GTAAAAGTTG TTATATGCTT TGACCGTATG 2100
 TAACTCAAGG TGCGAAAGTG CAACTCTGTA TCCCGCAGTC GTTCTTAGG TTCTTAATGT 2160
 GATGATTTGT AAGACTGAGT GTTAAGGTAT GAACACAAAA TTGACACGAT TGCTCT 2216 --

On page 10, line 21, after "783" but before the ":", please insert --(SEQ. ID.

No. 7)--.

Please delete lines 22-39 on page 10 and lines 1-18 on page 11, and insert the following:

-- Gln Val Glu Ser Asn Asn Arg Thr Val Asn Ser Leu Ala Val Lys Ser
 1 5 10 15
 Leu Leu Met Ser Ala Glu Asn Asn Ile Met Pro Asn Ser Gln Ala Ser
 20 25 30
 Thr Asp Ser His Phe Lys Leu Ser Leu Trp Leu Arg Val Pro Lys Val
 35 40 45
 Leu Lys Gln Val Ser Ile Gln Lys Leu Phe Lys Val Ala Gly Asp Glu
 50 55 60
 Thr Asn Lys Thr Phe Tyr Leu Ser Ile Ala Cys Ile Pro Asn His Asn
 65 70 75 80
 Ser Val Glu Thr Ala Leu Asn Ile Thr Val Ile Cys Lys His Gln Leu
 85 90 95

Pro Ile Arg Lys Cys Lys Ala Pro Phe Glu Leu Ser Met Met Phe Ser
 100 105 110
 Asp Leu Lys Glu Pro Tyr Asn Ile Val His Asp Pro Ser Tyr Pro Lys
 115 120 125
 Gly Ser Val Pro Met Leu Trp Leu Glu Thr His Thr Ser Leu His Lys
 130 135 140
 Phe Phe Ala Thr Asn Leu Gln Glu Asp Val Ile Ile Tyr Thr Leu Asn
 145 150 155 160
 Asn Leu Glu Leu Thr Pro Gly Lys Leu Asp Leu Gly Glu Arg Thr Leu
 165 170 175
 Asn Tyr Ser Glu Asp Ala Tyr Lys Arg Lys Tyr Phe Leu Ser Lys Thr
 180 185 190
 Leu Glu Cys Leu Pro Ser Asn Thr Gln Thr Met Ser Tyr Leu Asp Ser
 195 200 205
 Ile Gln Ile Pro Ser Trp Lys Ile Asp Phe Ala Arg Gly Glu Ile Lys
 210 215 220
 Ile Ser Pro Gln Ser Ile Ser Val Ala Lys Ser Leu Leu Lys Leu Asp
 225 230 235 240
 Leu Ser Gly Ile Lys Lys Lys Glu Ser Lys Val Lys Glu Ala Tyr Ala
 245 250 255
 Ser Gly Ser Lys
 260 --

On page 11, line 21, after the word "gene" (second occurrence) but before the ".", please insert --(SEQ. ID. No. 6)--.

On page 12, line 20, after the word "gene" but before the ".", please insert --(SEQ. ID. No. 8)--.

On page 13, line 9, after the word "is" and before ":", please insert --(SEQ. ID. No. 9)--.

~~AE~~ On page 16, line 23, change "in vitro" to --in vitro--.

~~AS~~

On page 16, line 33, change "a nd" to --and--.

On page 18, line 31, change "teh" to --the--.

On page 19, line 26, change "TSWV-BI" to --TSWV-BL--.

On page 21, line 32, change "viron" to --virion--.

On page 22, line 7, change "viron" to --virion--.

On page 22, line 28, change "symptomless" to --Symptomless--.

On page 22, line 33, change "cold" to --could--.

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On page 23, line 18, change "viron" to --virion--.

On page 24, line 8, change "symptom less" to --symptomless--.

On page 26, line 22, before the ",", insert -- (SEQ. ID. No. 10) --.

On page 26, line 33, before "complementary", insert -- (SEQ. ID. No. 11) --.

On page 27, line 1, change "anshor" to --anchor--.

On page 27, line 2, before "that", insert -- (SEQ. ID. No. 17) --.

On page 27, line 4, change "amplified fragement" to --amplified fragment--.

On page 27, line 7, before "close", insert -- (SEQ. ID. No. 16) --.

On page 27, line 28, after the word "is" but before the ":", please insert --
(SEQ. ID. No. 14)--.

On page 29, line 22, after the word "are" but before the ":", please insert --
(SEQ. ID. No. 12)--.

Please delete lines 23-38 on page 29, lines 1-44 on page 30, and lines 1-3 on
page 31, and insert the following:

-- Met Ser Ser Gly Val Tyr Glu Ser Ile Ile Gln Thr Lys Ala Ser Val
 1 5 10 15
 Trp Gly Ser Thr Ala Ser Gly Lys Ser Ile Val Asp Ser Tyr Trp Ile
 20 25 30
 Tyr Glu Phe Pro Thr Gly Ser Pro Leu Val Gln Thr Gln Leu Tyr Ser
 35 40 45
 Asp Ser Arg Ser Lys Ser Ser Phe Gly Tyr Thr Ser Lys Ile Gly Asp
 50 55 60
 Ile Pro Ala Val Glu Glu Glu Ile Leu Ser Gln Asn Val His Ile Pro
 65 70 75 80
 Val Phe Asp Asp Ile Asp Phe Ser Ile Asn Ile Asn Asp Ser Phe Leu
 85 90 95
 Ala Ile Ser Val Cys Ser Asn Thr Val Asn Thr Asn Gly Val Lys His
 100 105 110
 Gln Gly His Leu Lys Val Leu Ser Leu Ala Gln Leu His Pro Phe Glu
 115 120 125
 Pro Val Met Ser Arg Ser Glu Ile Ala Ser Arg Phe Arg Leu Gln Glu
 130 135 140
 Glu Asp Ile Ile Pro Asp Asp Lys Tyr Ile Ser Ala Ala Asn Lys Gly
 145 150 155 160
 Ser Leu Ser Cys Val Lys Glu His Thr Tyr Lys Val Glu Met Ser His
 165 170 175

Asn Gln Ala Leu Gly Lys Val Asn Val Leu Ser Pro Asn Arg Asn Val
 180 185 190
 His Glu Trp Leu Tyr Ser Phe Lys Pro Asn Phe Asn Gln Ile Glu Ser
 195 200 205
 Asn Asn Arg Thr Val Asn Ser Leu Ala Val Lys Ser Leu Leu Met Ala
 210 215 220
 Thr Glu Asn Asn Ile Met Pro Asn Ser Gln Ala Phe Val Lys Ala Ser
 225 230 235 240
 Thr Asp Ser His Phe Lys Leu Ser Leu Trp Leu Arg Ile Pro Lys Val
 245 250 255
 Leu Lys Gln Ile Ala Ile Gln Lys Leu Phe Lys Phe Ala Gly Asp Glu
 260 265 270
 Thr Gly Lys Ser Phe Tyr Leu Ser Ile Ala Cys Ile Pro Asn His Asn
 275 280 285
 Ser Val Glu Thr Ala Leu Asn Val Thr Val Ile Cys Arg His Gln Leu
 290 295 300
 Pro Ile Pro Lys Ser Lys Ala Pro Phe Glu Leu Ser Met Ile Phe Ser
 305 310 315 320
 Asp Leu Lys Glu Pro Tyr Asn Thr Val His Asp Pro Ser Tyr Pro Gln
 325 330 335
 Arg Ile Val His Ala Leu Leu Glu Thr His Thr Ser Phe Ala Gln Val
 340 345 350
 Leu Cys Asn Lys Leu Gln Glu Asp Val Ile Ile Tyr Thr Ile Asn Ser
 355 360 365
 Pro Glu Leu Thr Pro Ala Lys Leu Asp Leu Gly Glu Arg Thr Leu Asn
 370 375 380
 Tyr Ser Glu Asp Ala Ser Lys Lys Lys Tyr Phe Leu Ser Lys Thr Leu
 385 390 395 400
 Glu Cys Leu Pro Val Asn Val Gln Thr Met Ser Tyr Leu Asp Ser Ile
 405 410 415
 Gln Ile Pro Ser Trp Lys Ile Asp Phe Ala Arg Gly Glu Ile Arg Ile
 420 425 430
 Ser Pro Gln Ser Thr Pro Ile Ala Arg Ser Leu Leu Lys Leu Asp Leu
 435 440 445
 Ser Lys Ile Lys Glu Lys Lys Ser Leu Thr Trp Glu Thr Ser Ser Tyr
 450 455 460
 Asp Leu Glu
 465 --

On page 31, line 4, after the word "and", please insert --(SEQ. ID. No. 13)--.

On page 31, line 41, after the word "is" but before the ":", please insert -- (SEQ. ID. No. 15)--.

Please delete lines 42-43 on page 31 and lines 1-16 on page 32, and replace with the following:

-- TTATGCAACA CCAGCAATCT TGGCCTCTTT CTTAACTCCA AACATTTTCAT AGAATTTGTC 60
 AAGATTATCA CTGTAATAGT CCATAGCAAT GCTTCCCTTA GCATTGGGAT TGCAAGAACT 120
 AAGTATCTTG GCATATTCTT TCCCTTTGTT TATCTGTGCA TCATCCATTG TAAATCCTTT 180
 GCTTTTAAGC ACTGTGCAAA CCTTCCCCAG AGCTTCCTTA GTGTTGTACT TAGTTGGTTC 240
 AATCCCTAAC TCCTTGTA CTGTCATCTTG ATATATGGCA AGAACAACAC TGATCATCTC 300
 GAAGCTGTCA ACAGAAGCAA TGAGAGGGAT ACTACCTCCA AGCATTATAG CAAGTCTCAC 360
 AGATTTTGCA TCTGCCAGAG GCAGCCCGTA AGCTTGACC AAAGGGTGGG AGGCAATTTT 420
 TGCTTTGATA ATAGCAAGAT TCTCATTGTT TGCAGTCTCT TCTATGAGCT TCACTCTTAT 480
 CATGCTATCA AGCCTCCTGA AAGTCATATC CTTAGCTCCA ACTCTTTCAG AATTTTCTT 540
 TATCGTGACC TTACCAAAG TAAATCACT TTGGTTCACA ACTTTCATAA TGCCTTGCGC 600
 ATTCTTCAAG AAAGTCAAAC ATGAAGTGAT ACTCATTTTC TTAATCAGGT CAAGATTTTC 660
 CTGACAGAAA GTCTTAAAGT TGAATGCGAC CTGGTCTGG TCTTCTCAA ACTCAACATC 720
 TGCAGATTGA GTTAAAAGAG AGACAATGTT TTCTTTGTG AGCTTGACCT TAGACAT 777

The complementary nucleic acid molecule has a nucleotide sequence as shown in SEQ. ID. No. 19--.

On page 32, line 24, change "vial" to --viral--.

On page 33, line 29, change "the" to --The--.

On page 33, line 32, change "differs" to --differ--.

On page 34, line 17, change "exactly same positions" to --exact same position--.

On page 35, line 12, change "event." to --event,--.

On page 35, line 13, change "Tospovirus" to --Tospovirus--

On page 36, line 10, change "generated" to --generate--.

On page 36, line 27, change "Np" to --NP--.

On page 39, line 16, after "virus" insert --was--.

On page 39, line 17, change ", and is" to --and was--.

On page 40, line 25, change "resistant" to --resistance--.

On page 41, line 3, before "and", insert -- (SEQ. ID. No. 20) --.

On page 41, line 4, before ",", insert -- (SEQ. ID. No. 21) --.

On page 41, line 10, after "plants" insert --that--.

On page 41, line 11, change "greenhouse. All" to --greenhouse, all--.

On page 43, line 9, after "appearance" insert ---.

On page 43, line 15, change "pants" to --plants--.

On page 45, line 19, change "vecor" to -- vector --.

On page 45, line 33, before ",", insert -- (SEQ. ID. No. 22) --.

On page 45, line 35, before ",", insert -- (SEQ. ID. No. 23) --.

On page 46, line 31, before "was", insert -- (SEQ. ID. No. 24) --.

On page 47, line 11, change "Hewlet Scanjet" to --Hewlett ScanjetTM--.

~~HE~~ On page 51, line 2, change "Tospoviruses" to --Tospoviruses--

~~HE~~ On page 53, line 11, change "Tospovirus" to --Tospovirus--

On page 53, line 14, change "realated" to --related--.

On page 53, line 16, change "RNE" to --RNA --.

On page 53, line 28, change "generqated" to --generated--.

On page 54, line 2, before ",", insert -- (SEQ. ID. No. 25) --.

On page 54, line 4, before "for", insert -- (SEQ. ID. No. 26) --.

On page 54, line 6, before "for", insert -- (SEQ. ID. No. 27) --.

On page 54, line 10, before "which", insert -- (SEQ. ID. No. 28) --.

On page 54, line 12, before "for", insert -- (SEQ. ID. No. 29) --.

On page 54, line 15, before "for", insert -- (SEQ. ID. No. 30) -- and change

"untranslatablesecond" to -- untranslatable second --

On page 54, line 33, change "expressin" to --expression--.

On page 55, line 23, change "fragemnts" to --fragments--.

On page 55, line 32, change "fragements" to --fragments--.

On page 55, line 30, change "prodcing" to -- producing --.

On page 55, line 34, change "expressin" to -- expression --.

On page 56, line 4, change "trnscription" to --transcription--.

On page 56, line 6, change "pant" to -- plant -- and change "resluting" to --

resulting --.

On page 56, line 32, change "variojs" to -- various --.

On page 57, line 23, change "portin" to -- portion --.